

Project Summary and Justification

Department	Public Works
Division	Watershed Management

The 2005-2011 Storm Drainage Capital Improvement Program is a combination of projects which require funding on an annual basis and projects requiring one-time funding for specific locations.

- Project 1** **City Subsidy to Storm Drainage Construction in Paving Districts**
Project 2 **City Subsidy to Storm Drainage Construction in New Subdivisions**
Project 3 **Preliminary Storm Drainage Studies, Engineering, Emergency Construction and Right-of-Way and Easement Acquisition**

Projects 1, 2 and 3 reflect the continuing need to finance the construction of storm drain required in conjunction with the construction of paving districts throughout the City; continuing the policy of not subsidizing storm drain system construction within new subdivisions; and the need to provide funding for preliminary storm drainage studies, engineering, emergency construction and right-of-way and easement acquisitions.

- Project 4** **Miscellaneous Minor Public Storm Drain Studies and Improvements, such as Repairs to Physically Distressed Systems and Upgrading Aging Systems**

Project 4 is for the construction of minor storm drain improvements at various locations in the public storm drain system where deficiencies are causing local drainage problems or repairs are needed to existing facilities. Specific locations have not been identified. Funding for this project is also used for minor storm drain studies on an as-needed basis.

- Project 5** **Comprehensive Stormwater Watershed Master Plans**

Project 5 provides continuing funding for “Comprehensive Stormwater Watershed Master Plans”. These plans are a tool to manage drainage quantity and quality, updated floodplain maps, and prioritize future stormwater expenditures in each drainage basin with the City. LPSNRD assists in providing funds for this project. These plans are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

- Project 6** **Implementation of Stormwater Watershed Master Plan and Conservation Plan Projects**

Project 6 is the implementation of Stormwater Watershed Master Plan and Conservation Plan projects. These projects include bank stability measures, channel improvements, wetlands, engineering, land acquisitions, FEMA map updates, floodplain preservation, grade checks, and storage facilities within Master Planned and Conservation Planned basins. LPSNRD assists in the funding of these projects. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln. Current approved, in-process, or planned for (with this CIP) Master and Conservation Plans include the following watersheds: a.) Beal Slough; b.) Southeast Upper Salt Creek; c.) Stevens Creek; d.) Cardwell Branch; e.) Little Salt Creek; and, f.) Dead Mans Run

- Project 7** **Best Management Practice (BMP) Projects**

Project 7 is a new project for 2005-06 and provides funding for Best Management Practice (BMP) projects. These projects include BMP demonstration projects, and cost-share on other structural BMPs that improve water quality and quantity for the City of Lincoln. LPSNRD assists in the funding of these

Project Summary and Justification (cont.)

Department	Public Works
Division	Watershed Management

projects and the City is seeking funding from NDEQ and other state and federal agencies for assistance with BMP demonstration and other BMP projects. The City's share of these projects is funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

Project 8 Floodplain/Floodprone Projects

Project 8 is a new project for 2005-06 and provides funding for floodplain management projects, including DFIRM remapping studies and flood control projects not within a Comprehensive Watershed Stormwater Master Plan basin (see Project 6) and purchase of easements or fee title for floodplain/floodprone areas to conserve flood storage availability. FEMA assists in the funding of some of these projects. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

Project 9 Urban Storm Drain Projects

Project 9 consists of urban drainage construction projects at various locations in the City of Lincoln where no system exists or to replace/add to a deficient urban drainage (structural and/or conveyance) system. Funding identified for 2004-05 and 2005-06 urban storm drain projects was previously appropriated in the 2004-10 CIP, and is reflected in the prior appropriations shown for this project.

Three projects not identified in the 2004-2010 are included in the 2005-11 CIP and are described as follows:

- a. 1st & N Street Subbasin - (N Street, 10th to 11th): Partial floor, wall, and ceiling structural failures and deficiencies in a 10' high x 8' wide limestone arch culvert (early 1900's const).
- b. SW 2nd & D Street Subbasin - (7th and Washington): Repair and larger conveyance for storm drain system in the 17th and Washington area including the repair of a large void at this location.
- c. 4th & Park Blvd Subbasin (6th and Hill): Regarding of an open drainage swale in this area to improve drainage and alleviate standing water issues.

The lack of proper storm drain systems causes street and private property flooding during intense storm events, as well as other drainage issues. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

Project 10 Miscellaneous Repairs and Rehabilitation

Project 10 consists of miscellaneous repairs and rehabilitation to existing City storm drain systems. These are typically smaller than projects accomplished with CIP Project 9. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

Project 11 Storm Drainage Rehabilitation of Parks and Recreation Department Property

Project 11 is identified for storm drainage projects on Parks and Recreation property, and are typically channel rehabilitation and scour protection projects. A preliminary assessment has been completed for design and construction needs in Antelope Park, Taylor Park, Herbert Park and Roper Park, which were identified in the 2004-2010 CIP. These projects typically involve rip rap placement, live staking, composite revetments, grade controls, step and plunge pools and crib/modular walls. These projects are funded by general obligation bonds, which must be approved by voters of the City of Lincoln.

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Lincoln CIP 2005 - 2011

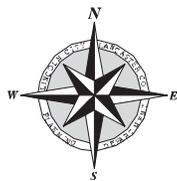
Public Works Watershed Management



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Lincoln's Future Service Limit Shown as Gray

Map prepared by
City - Co. Planning Dept
GIS Section



- ▲ Project 6: Implement Basin Master Plan And Conservation Plan Projects (Multiple Years)
- Project 9: Urban Storm Drainage Projects (Multiple Years)

List of Projects*Department: Public Works/Watershed Management*

Project
Number Project Title

- 1* City Subsidy to Storm Drainage Construction in Paving Districts
- 2* City Subsidy to Storm Drainage Construction in New Subdivisions
- 3* Preliminary Storm Drain Studies, Engineering, Emergency Construction, and Right-of-Way and Easement Acquisitions
- 4* Miscellaneous Minor Public Storm Drain Improvements
- 5* Comprehensive Stormwater Watershed Master Plans
- 6 Implementation of Stormwater Watershed Master Plan and Conservation Plan Projects
 - a Beal Slough Watershed
 - b Southeast Upper Salt Creek Watershed
 - c Stevens Creek Watershed
 - d Cardwell Branch Watershed
 - e Little Salt Creek Watershed
 - f Dead Mans Run Watershed
- 7* Best Management Practices
- 8* Floodplain/Floodprone Projects
- 9 Urban Storm Drain Projects (other projects identified in 2004-10 CIP, Project 9)
 - a 1st and N Street Subbasin
 - b SW 2nd and D Street Subbasin
 - c 4th and Park Blvd Subbasin
- 10* Miscellaneous Repairs and Rehabilitations
- 11* Storm Drain Rehabilitation of Parks and Recreation Properties

*Indicates project is NOT shown on the map.

DEPARTMENT: PUBLIC WORKS

FORM A

2005 - 2011 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATERSHED MANAGEMENT

(1)	(2)	(3)	3% Inflation per year (4)											
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS	2010-2011	FS
1	City subsidy to storm drainage construction in paving districts	A			43.2 GR		44.5 GR		45.8 GR		47.2 GR		48.6 GR	
2	City subsidy to storm drainage construction in new subdivisions	A	0.0 GR		0.0 GR		0.0 GR		0.0 GR		0.0 GR		0.0 GR	
3	Preliminary storm drain studies, engineering, emergency construction, and right-of-way and easement acquisitions	A			15.3 GR		15.7 GR		16.2 GR		16.7 GR		17.2 GR	
4	Miscellaneous minor public storm drain studies, improvements, such as repairs to physically distressed systems and upgrading aging systems	A			109.3 GR		112.6 GR		116.0 GR		119.5 GR		123.1 GR	
5	Comprehensive Stormwater Watershed Master Plans and Basin Management Plans (LPSNRD Funding)	A			720.6 GO				764.9 GO				811.5 GO	
			250.0 OF		200.0 OF		200.0 OF		200.0 OF		200.0 OF		200.0 OF	
	PROJECT 5 TOTAL		250.0		920.6		200.0		964.9		200.0		1,011.5	
6	Projects to implement approved Basin Master Plans and Conservation Plans to include channel improvements, stream stability measures, wetlands, engineering, land acquisitions, FEMA map updates, floodplain/floodprone preservation, grade checks, storage facility and other projects recommended in Watershed Master Plans and Conservation Plans (LPSNRD Funding)	A					106.1 GR				112.6 GR		107.1 GR	
					5,500.0 GO				6,000.0 GO				6,500.0 GO	
			500.0 OF		500.0 OF		500.0 OF		500.0 OF		500.0 OF		500.0 OF	
	a. Beal Slough Watershed b. Southeast Upper Salt Creek Watershed c. Stevens Creek Watershed d. Cardwell Watershed e. Little Salt Creek Watershed f. Dead Mans Run Watershed													
	PROJECT 6 TOTAL		500.0		6,000.0		606.1		6,500.0		612.6		7,107.1	
7*	Best Management Practice (BMP) projects	A												
	a. BMP demonstration project (NDEQ Funding)		100.0 SF											
	(LPSNRD Funding)		100.0 OF											
	b. Structural BMP cost share				206.0 GO				218.5 GO				231.9 GO	
	(LPSNRD Funding)		50.0 OF		100.0 OF		100.0 OF		100.0 OF		100.0 OF		100.0 OF	
	PROJECT 7 TOTAL		250.0		306.0		100.0		318.5		100.0		331.9	

* Denotes new project

FORM B

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2010-2011 (000's)	PRIOR APPROPRIATIONS		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
		(000's)	YEAR FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
229.3	Unknown	40.7	04-05 GR	270.0	GCP	1					229.3			1
0.0	Unknown	0.0	04-05 GR	0.0	GCP	1					0.0			2
81.1	Unknown	14.4	04-05 GR	95.5	GCP	1	10.0	20.0	10.0		41.1			3
580.5	Unknown	100.0	04-05 GR	680.5	GCP	1	50.0	100.0	50.0		380.5			4
2,297.0	Unknown	50.0	04-05 GR											
1,250.0	Unknown	629.2	04-05 GO											
		185.4	04-05 OF											
3,547.0		864.6		4,411.6	ICWP	2	3,547.0							5
325.8	Unknown													
18,000.0	Unknown	1,735.0	04-05 GO											
3,000.0	Unknown	500.0	04-05 OF											
21,325.8		2,235.0		23,560.8	ICWP	2	1,000.0	3,000.0	2,000.0		15,325.8			6
100.0	Unknown	150.0	04-05 GO											
100.0	Unknown													
656.4	Unknown	100.0	04-05 GO											
550.0	Unknown													
1,406.4		250.0		1,656.4	GCP	1		30.0	1,256.4		120.0			7*

2005 - 2011 CAPITAL IMPROVEMENT PROGRAM

(1) PROJ. NO.	(2) PROJECT TITLE	(3) PROJ. PRIO.	(4) 3% Inflation per year														
			PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)														
			2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS	2010-2011	FS			
8*	Floodplain/Floodprone projects	A															
	a. Purchase of easements or fee title for floodplain/floodprone areas (LPSNRD Funding)		300.0	OF	206.0	GO			218.5	GO						231.9	GO
	b. Salt Creek DFIRM remapping study (FEMA Funding)		80.0	OF													
	c. Lynn Creek flood control project (LPSNRD Funding)		85.0	OF													
	PROJECT 8 TOTAL		465.0		206.0				218.5							231.9	
9	Urban Storm Drain Projects (other projects identified in 2004-10, Project 9)	A			4,900.0	GO			5,200.0	GO						5,500.0	GO
	a. 1st and N Street Subbasin																
	b. SW 2nd and D Street Subbasin																
	c. 4th and Park Blvd Subbasin																
10	Miscellaneous Repairs & Rehabilitations	A			388.0	GO			411.6	GO						436.7	GO
11	Storm Drain Rehabilitation of Parks and Recreation Property	A			273.2	GO			289.8	GO						307.5	GO
	* Denotes new project																
	FUNDING SOURCE BREAKDOWN:																
	GO (General Obligation Bonds)		0.0		12,193.8		0.0		13,103.4		0.0			0.0		14,019.4	
	GR (General Revenue)		0.0		167.8		278.9		178.0		296.0			296.0		296.0	
	OF (Lower Platte South NRD)		1,365.0		800.0		800.0		800.0		800.0		800.0		800.0		800.0
	SF (NDEQ)		100.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
	DIVISION TOTAL:		1,465.0		13,161.6		1,078.9		14,081.4		1,096.0			15,115.4			

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)	
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2010-2011 (000's)	PRIOR APPROPRIATIONS (000's) YEAR FS		TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.	
							PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)		
656.4	Unknown	300.0	04-05	GO										
300.0	Unknown	138.2	04-05	GO										
80.0	Unknown	342.9	03-04	SF										
85.0	Unknown	100.0	04-05	GO										
1,121.4		881.1			GCP	2		80.0	956.4	85.0				8*
15,600.0	Unknown	3,749.0	04-05	GO	GCP	6		2,340.0	780.0	12,480.0				9
1,236.3	Unknown	356.7	04-05	GO	GCP	2	62.0	247.3		927.0				10
870.5	Unknown	720.0	04-05	GO	GCP	7		174.5		696.0				11
39,316.6														
1,216.7														
5,365.0														
100.0														
=====														
45,998.3														

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